M E J Newman

List of Publications by Year in descending order

57 papers	49,422 citations	81839 39 h-index	149623 56 g-index
60 all docs	60 docs citations	60 times ranked	29056 citing authors

#	Article	IF	Citations
1	Clustering of heterogeneous populations of networks. Physical Review E, 2022, 105, 014312.	0.8	3
2	Representative community divisions of networks. Communications Physics, 2022, 5, .	2.0	9
3	Cutting Through the Noise to Infer Autonomous System Topology. , 2022, , .		3
4	Belief propagation for networks with loops. Science Advances, 2021, 7, .	4.7	26
5	The friendship paradox in real and model networks. Journal of Complex Networks, 2021, 9, .	1.1	6
6	Reconstruction of plant–pollinator networks from observational data. Nature Communications, 2021, 12, 3911.	5.8	18
7	Bayesian inference of network structure from unreliable data. Journal of Complex Networks, 2021, 8, .	1.1	30
8	Consistency of community structure in complex networks. Physical Review E, 2020, 101, 052306.	0.8	46
9	Improved mutual information measure for clustering, classification, and community detection. Physical Review E, 2020, 101, 042304.	0.8	35
10	Spectra of networks containing short loops. Physical Review E, 2019, 100, 012314.	0.8	17
11	Message passing on networks with loops. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23398-23403.	3.3	44
12	Balance in signed networks. Physical Review E, 2019, 99, 012320.	0.8	69
13	Spectra of random networks with arbitrary degrees. Physical Review E, 2019, 99, 042309.	0.8	14
14	Mixing patterns and individual differences in networks. Physical Review E, 2019, 99, 042306.	0.8	17
15	Structure of Online Dating Markets in U.S. Cities. Sociological Science, 2019, 6, 219-234.	2.0	19
16	Network structure from rich but noisy data. Nature Physics, 2018, 14, 542-545.	6.5	137
17	Estimating network structure from unreliable measurements. Physical Review E, 2018, 98, .	0.8	41
18	Power-Law Distribution. Significance, 2017, 14, 10-11.	0.3	14

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19	Structure and inference in annotated networks. Nature Communications, 2016, 7, 11863.	5.8	227
20	Estimating the Number of Communities in a Network. Physical Review Letters, 2016, 117, 078301.	2.9	103
21	Equivalence between modularity optimization and maximum likelihood methods for community detection. Physical Review E, 2016, 94, 052315.	0.8	215
22	Structural inference for uncertain networks. Physical Review E, 2016, 93, 012306.	0.8	46
23	Multiway spectral community detection in networks. Physical Review E, 2015, 92, 052808.	0.8	51
24	Generalized Communities in Networks. Physical Review Letters, 2015, 115, 088701.	2.9	55
25	Identification of core-periphery structure in networks. Physical Review E, 2015, 91, 032803.	0.8	130
26	Equitable random graphs. Physical Review E, 2014, 90, 052824.	0.8	17
27	Localization and centrality in networks. Physical Review E, 2014, 90, 052808.	0.8	208
28	Spectra of random graphs with community structure and arbitrary degrees. Physical Review E, 2014, 89, 042816.	0.8	37
29	Percolation on Sparse Networks. Physical Review Letters, 2014, 113, 208702.	2.9	185
30	Spectral methods for community detection and graph partitioning. Physical Review E, 2013, 88, 042822.	0.8	276
31	Interacting Epidemics and Coinfection on Contact Networks. PLoS ONE, 2013, 8, e71321.	1.1	65
32	Graph Spectra and the Detectability of Community Structure in Networks. Physical Review Letters, 2012, 108, 188701.	2.9	209
33	Communities, modules and large-scale structure in networks. Nature Physics, 2012, 8, 25-31.	6.5	633
34	Resource Letter CS–1: Complex Systems. American Journal of Physics, 2011, 79, 800-810.	0.3	135
35	Stochastic blockmodels and community structure in networks. Physical Review E, 2011, 83, 016107.	0.8	1,198
36	Random graphs containing arbitrary distributions of subgraphs. Physical Review E, 2010, 82, 066118.	0.8	100

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37	Random Graphs with Clustering. Physical Review Letters, 2009, 103, 058701.	2.9	337
38	Hierarchical structure and the prediction of missing links in networks. Nature, 2008, 453, 98-101.	13.7	1,674
39	Bicomponents and the Robustness of Networks to Failure. Physical Review Letters, 2008, 100, 138701.	2.9	41
40	Mixture models and exploratory analysis in networks. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9564-9569.	3.3	421
41	Component sizes in networks with arbitrary degree distributions. Physical Review E, 2007, 76, 045101.	0.8	51
42	Finding community structure in networks using the eigenvectors of matrices. Physical Review E, 2006, 74, 036104.	0.8	3,485
43	Modularity and community structure in networks. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8577-8582.	3.3	9,017
44	MAPS AND CARTOGRAMS OF THE 2004 US PRESIDENTIAL ELECTION RESULTS. International Journal of Modeling, Simulation, and Scientific Computing, 2005, 08, 117-123.	0.9	29
45	Threshold Effects for Two Pathogens Spreading on a Network. Physical Review Letters, 2005, 95, 108701.	2.9	221
46	Reply to â€œComment on â€˜Subgraphs in random networksâ€™â€‰â€• Physical Review E, 2004, 70, .	0.8	16
47	Coauthorship networks and patterns of scientific collaboration. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5200-5205.	3.3	1,422
48	Detecting community structure in networks. European Physical Journal B, 2004, 38, 321-330.	0.6	1,549
49	Finding and evaluating community structure in networks. Physical Review E, 2004, 69, 026113.	0.8	9,503
50	Analysis of weighted networks. Physical Review E, 2004, 70, 056131.	0.8	1,735
51	Fast algorithm for detecting community structure in networks. Physical Review E, 2004, 69, 066133.	0.8	3,851
52	Properties of highly clustered networks. Physical Review E, 2003, 68, 026121.	0.8	355
53	Mixing patterns in networks. Physical Review E, 2003, 67, 026126.	0.8	2,156
54	Why social networks are different from other types of networks. Physical Review E, 2003, 68, 036122.	0.8	977

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55	Assortative Mixing in Networks. Physical Review Letters, 2002, 89, 208701.	2.9	3,749
56	Random graphs with arbitrary degree distributions and their applications. Physical Review E, 2001, 64, 026118.	0.8	2,651
57	Structure of growing social networks. Physical Review E, 2001, 64, 046132.	0.8	347